

Read also "Descriptions of some new or imperfectly known species of *Bolboceras*." By J. O. Westwood, Esq., F.L.S. &c.

In this paper Mr. Westwood proceeds, in continuation of his former communication (see p. 365), containing a Synopsis of the Australian species of *Bolboceras*, to give descriptions of others of the genus from various parts of the world, and especially from the East Indies. The descriptions were accompanied as before with illustrative drawings.

1. *BOLBOCERAS CYCLOPS*, *Fabr.* (Ent. Syst. i. p. 15; Oliv. Ent. i. 3. t. 15. f. 140); ferrugineus; clypeo anticè carinâ transversâ tuberculisque duobus acutis instructo, vertice lineâ tenui parùm elevatâ inter oculos, pronoto utrinque excavatione profundâ subrotundâ anticè cornu acuto alteroque minori versus medium armato: spatio inter cornua intermedia plano punctato anticè lineâ semicirculari parùm elevatâ cincto canali vix distincto longitudinali ante scutellum terminato, elytris punctato-striatis striis tenuibus, tibiis anticis 8-dentatis. ♂—Long. corp. lin. 9.

Variat mas magnitudine dentium capitis et pronoti necnon profunditate excavationum hujus lateralium.

Hab. in Javâ, Assam, et Indiâ centrali. Mus. Hope (olim Lee) et nostr. (*Hearsey*).

2. *BOLBOCERAS GRANDIS*, *Hope MSS.*; rufo-castaneus, capite dentibusque tibiarum anticarum nigricantibus, clypeo carinâ tenui semicirculari, vertice carinâ transversâ inter oculorum partem anticam, pronoto convexo carinâ semicirculari tuberculisque duobus versus marginem anticam lineâque tenui longitudinali impressâ mediâ in parte posticâ.—Long. corp. lin. 9.

Hab. in Indiâ orientali? In Mus. D. Hope.

3. *BOLBOCERAS FURCICOLLIS*, *De Laporte* (An. Art. Coleopt. vol. ii. p. 104. no. 3); castaneo-rufus, sub lente granulosus, clypeo maris quadrato plano anticè bisinnato angulis lateralibus anticis in cornua duo porrectis, pronoto posticè elevato disco in medio cornubus duobus erectis distantibus recurvis alterisque duobus intùs concavis versus angulos posticos canali lævi mediano versus marginem posticam, elytris punctato-striatis, tibiis anticis extùs 6-dentatis.—Long. corp. lin. 10.

B. Lecontei, *Dej. Catal. Coleopt.*

Hab. in Americâ boreali (teste De Laporte et Mus. Hope et Gory), an recte?

4. *BOLBOCERAS FERRUGINEUS*, *De Laporte* (Hist. Nat. An. Art. Col. vol. ii. p. 104. no. 4); castaneo-fulvus sub lente granulosus, capite anticè carinâ sinuatâ anticâ tuberculoque subbifido tertio inter oculos, pronoto ante medium spatium duobus parùm elevatis lævibus lineâ tenui impressâ punctatâ (ferè ad marginem posticum extensâ) divisus utrinque

etiam versus angulos posticos impressione obliquâ suprâ carinâ lævi marginatâ, elytris punctato-striatis, tibiis anticis 6-dentatis.—Long. corp. lin. $9\frac{1}{2}$.

Hab. in Indiâ orientali? In Mus. Gory, nunc Hope.

5. BOLBOCERAS CARENICOLLIS, *De Laporte* (Hist. Nat. An. Art. Coleopt. vol. ii. p. 104. no. 2); *B. ferrugineo* affinis sed magis castaneus, sub lente granulatus, capite carinâ tenui marginali curvatâ verticeque tuberculis duobus parvis conicis inter oculos carinâ connexis, pronoto obscuro in medio carinâ transversâ abbreviatâ instructo maculâque nigrâ utrinque versus angulos posticos, elytris striatis striis punctis minutis, tibiis anticis 5-dentatis.—Long. corp. lin. 10.

Hab. in Indiâ orientali. In Mus. Gory (nunc Hope).

6. BOLBOCERAS CALANUS, *Hope MSS.*; fulvus vel rufo-castaneus, clypeo posticè bicornuto, prothorace cornubus 4 versus marginem anticam duobus intermediis contiguus et a reliquis cavitate rotundatâ utrinque separatis.—Long. corp. lin. $7-8\frac{1}{2}$.

Hab. in Indiâ orientali, Bombay. In Mus. Melly et Hope.

7. BOLBOCERAS LÆVICOLLIS, *Westw.*; fulvo-castaneus, vertice ante medium bidentato, prothorace glabro tuberculis 4 versus marginem anticam æquidistantibus duobus intermediis carinâ tenui curvâ conjunctis.—Long. corp. lin. $9\frac{1}{2}$.

Hab. in Indiâ orientali. In Mus. Hope.

8. BOLBOCERAS LATERALIS, *Westw.*; castaneus, capite pedibusque nigricantibus, capite inermi, prothorace ferè lævi, excavationibus duabus lateralibus rotundatis singulâ suprâ tuberculo acuto armatâ.—Long. corp. lin. 6.

Hab. in Indiâ orientali, Gogo. In Mus. Hope.

9. BOLBOCERAS NIGRICANS, *Westw.*; piceo-niger nitidus, clypeo tuberculo conico anticè armato, verticis marginibus lateralibus utrinque bituberculatis discoque carinâ elevatâ inter oculos instructo, prothorace glabro nitido anticè retuso 4-dentato dentibus subæquidistantibus.—Long. corp. lin. 6.

10. BOLBOCERAS POLITUS, *Westw.*; nitidus fulvus, capitè et pronoto magis castaneis, capite anticè tricorni cornu antico majori erecto, prothorace excavatione maximâ dorsali posticè trisinuatâ, elytris punctato-striatis, tibiis anticis 5-dentatis dentibus anticis magnis acutis.—Long. corp. lin. $6\frac{1}{2}$.

Hab. in Senegaliâ. In Mus. Hope (olim Gory) nomine *Athyreus porcatus*, Lap., *Senegalensis*, Dej., haud rectè inscriptus.

11. BOLBOCERAS CORYPHÆUS, *Fabr.* (Ent. Syst. i. p. 9; Oliv. Ent. i. 3. tab. 16. f. 150); rufo-fulvus, capite suprâ plano, clypeo anticè bicorni cornubus recurvis apice nigris posticèque mucrone elevato brevissimo nigro, pronoto anticè retuso cornubus duobus brevibus approximatis anticè porrectis apice nigris in medio disco positis posticè gibbere ob-

tuso in excavatione parùm profundâ instructo, elytris punctato-striatis, tibiis anticis 5-dentatis.—Long. corp. lin. 8.

Hab. ad Caput Bonæ Spei (teste Fabricio). In Mus. Hope (olim Lee).

12. *BOLBOCERAS SCABRICOLLIS*, *Chevrol. MSS.*; ferrugineus, capite et pronoto magis piceis punctis minutis plus minusve confluentibus scabriusculis, capite in medio carinâ brevi transversâ sub 3-lobatâ, pronoto impressionibus tribus longitudinalibus ferè oblitteratis.—Long. corp. lin. 8.

Hab. apud Caput Bonæ Spei. In Mus. D. Chevrolat.

13. *BOLBOCERAS CAPITATUS*, *Westw.*; obscurè castaneus subnitidus, capite et pronoto minutissimè punctatis hoc utrinque excavatione maximâ cornubus duobus compositis magnis separatâ, tibiis anticis obtusè 6-dentatis.—Long. corp. lin. 10½.

Hab. in Assam, Indiæ orientalis. Mus. Melly et Saunders.

14. *BOLBOCERAS INÆQUALIS*, *Westw.*; rufo-castaneus, antennarum clavâ fulvâ, capite suprà concavo carinâ transversâ in parte posticâ, pronoto anticè valdè retuso suprà quadridentato fossulâque mediâ profundâ, elytris striato-punctatis, tibiis anticis 6-dentatis.—Long. corp. lin. 6¼.

Hab. in Indiâ orientali. *Col. J. B. Hearsey*; in Mus. nostr.

15. *BOLBOCERAS BICARINATUS*, *Westw.*; castaneo-fulvus, capite inter oculos et ad basin clypei carinis duabus transversis nigris, pronoto tuberculis duobus parvis parùm elevatis ante medium, tibiis anticis 7-dentatis.—Long. corp. lin. 8½.

Hab. in Indiâ orientali. Mus. Melly.

16. *BOLBOCERAS DORSALIS*, *Westw.*; rufo-castaneus, capitis vertice et pronoto medio nigris punctatis, capite in medio verticis tuberculis tribus conjunctis instructo, pronoto punctatissimo ferè regulari, tibiis anticis 8-dentatis.—Long. corp. lin. 7½.

Hab. in Indiâ orientali. Mus. W. W. Saunders.

17. *BOLBOCERAS NIGRICEPS*, *Westw.*; obscurè castaneus, punctatus, capite nigricanti carinâ arcuatâ tad basin clypei tuberculisque tribus verticilibus, pronoto lineâ longitudinali impressâ utrinque cum tuberculo parùm elevato, tibiis anticis 7-dentatis.—Long. corp. lin. 7½.

Affinis præcedenti et forsitan fœmina speciei diversæ.

18. *BOLBOCERAS TRANSVERSALIS*, *Westw.*; fulvo-castaneus, capite lato carinâ rectâ transversâ elevatâ inter oculos, pronoto lineâ longitudinali anticè dilatatâ impresso.—Long. corp. lin. 4½.

Hab. in Indiâ orientali. Mus. Melly.

19. *BOLBOCERAS INDICUS*, *Hope MSS.*; fulvo-rufus, capite anticè tuberculis duobus conicis erectis armato, pronoto lævissimo anticè excavatione semicirculari parùm profundâ notato, calcari pedum anticorum elongato obtuso, tibiis anticis 9-dentatis.—Long. corp. lin. 4.

Hab. in Indiâ orientali centrali. In Mus. Saunders et Hope.

20. BOLBOCERAS LINEATUS, *Melly MSS.*; fulvus nitidus, capite nigro punctato inter oculos tuberculo apice subbifido armato, pronoto simplici maculâ discoidali nigrâ, elytris convexis suturâ striisque longitudinalibus elevatis nigris, tibiis anticis 8-dentatis.—Long. corp. lin. $3\frac{3}{4}$.
Hab. in insulâ Ceylon. In Mus. Melly.

Subgenus EUCANTHUS, *Westw.*

Corpus minùs depressum quàm in reliquis; pronoto anticè haud retuso. *Tibiæ* anticæ dentibus duobus apicalibus magnis aliisque minutis externis versus basin armato. *Elytra* punctato-striata; singulo striis 5 tantùm inter humeros et suturam, punctis profundis.

21. BOLBOCERAS (EUCANTHUS) MELIBÆUS, *Fabricius* (Ent. Syst. i. p. 20); rufo- vel piceo-niger, clypeo carinâ transversâ plùs minùsve elevatâ (quasi e tuberculis duobus conjunctis formatâ) verticeque cornu brevissimo truncato (parùm emarginato) instructis, pronoto subdepresso inæquali, canali punctatâ longitudinali in medio (marginem anticam haud attingente) impressionibusque lateralibus curvatis punctatis tuberculoque utrinque instructis, elytris glaberrimis punctato-striatis.—Long. corp. lin. 4–5½.

Bolboceras concinnus, *Dejean*, *Cat. Coleopt.*

Hab. in Americâ boreali. In Mus. D. Hope.

Mr. Westwood concludes with some observations on *Bolb. Lazarus*, *Fabr.*, which he regards as closely allied to, if not identical with, *Bolb. Melibæus* of the same author.

June 20.

E. Forster, Esq., V.P., in the Chair.

John Shaw, Esq., M.D., was elected a Fellow.

Read a Postscript to Mr. Newport's paper on *Pteronarcys regalis*.

The author referred to the paper already read to show that the genus *Pteronarcys* ought to be arranged after *Perla*, and before *Capnia* and *Nemoura*, which it most nearly approaches in the structure of its alimentary canal; while *Perla* has affinities with the *Orthoptera* through the *Blattidæ*. The *Perla arenosa* of Pictet was regarded as making the nearest approach to the latter family, and this species was shown to be the *Perla abnormis* of Newman. The larva and pupa of this species were described from specimens taken